

Fig. 1A

Human_p53 MEEPOS DSVVEPPLSQEETFSDLTWKLEPENNVLSP--LPSQAMD
Xeno_p53 ME-PSSETGMDPPLSQEETFSDLTWKLEPENNVLSP--LPSQAMD
Squid_p53 MSQGTSS-----PNSQENFNLWDSLEQVTANEYTOIHERGVGYEYHEAPDOTSIEISA
CPB_p53 MS-SQSD-----FLPPDVQNFLEAEWEGD-----NMDNLN
Trib_p53A MS-QQS-----QFSDIIPDYDKFLEDH-----GKDDV
Trib_p53B -----
Helio_p53 -----
Dros_p53 MYISQP-----MSWHESTDSEDSTEDVDIK-----EDPKTV
consensus m qs et 1 1e 1

Human_p53 DLMLESDDI--EQWFTEDPGPDEAPRMPEAPRY-----APAPAPTPAPAPAPSW
Xeno_p53 CRLDNLS-----EFBDYPLADMT-----VLOEGMGNAVPTVT--
Squid_p53 YRLAQEPDPYGRSESYDLNPIINQIPAPMPIADTONNPLVNHCPYEDMPVSSSTPYSPHDH
CPB_p53 FFKDEPT-----LNDLNSNILING-----SIVANDSKMVLHFEF-
Trib_p53A GRIMHEN-----NVHLVNDGGE-----EEKYSNEANYTESTEFP-
Trib_p53B RQYKPPD-----FSHTFHPICISIFQLEDFKFNINOSYLSAPTFPP-
Helio_p53 -----
Dros_p53 EVSGSELT-----TEPMAPLQGLNSGN-----LMQFSQGSVLREMLQDI
consensus m p p a c t v p

Human_p53 PL--SSSVPSQKTYGSGTYGERIGFIH-SGTAKSVTCTYSPALNKMFCQIAKTCPVQLWVD
Xeno_p53 ---SCAVPSTDDYAGKYGGLQLDFOQ-NGTAKSVTCTYSPALNKMFCQIAKTCPVQLWVD
Squid_p53 VQSPQSPVSNIRKYPGEYVEMSFAPQSKETKSTWTYSEKLDKLYRMATTCPVREKTA
CPB_p53 ---VQTSVPSNDEYDGPYEEVDVHP---TVAKNSWVYSTTLNKMVMTWGSPPVDERS
Trib_p53A ---DQPNLGTETEPGPNESVLISSP---NEQKSPWEYSEKLNKLEIGINVKFPVAFSVQ
Trib_p53B ---SEPLELCNTEYPGPNLEFVVDP---NVLKNPWEYSPILNKLYTDMKHKEPINESVK
Helio_p53 -----
Dros_p53 QIQANTLPKLENHNIGGHCESWVDE---PKSLMWSIPLNKLYIRWKAENVDVQFK
consensus q svpsq dy g y f l v k tw ys lkmv ma fpv f v

Human_p53 STPE-PGTRVRAMATYKOSQHTETVRRCPPHHERCSD-----SDGLAPPQHIRVEGNLR
Xeno_p53 SPPR-RGSIIRATAVKKSSEHVAEVRKCPHHERSVEP-----GEDAAPSHMRVBEGLQ
Squid_p53 RPPR-SGCOIRAMPYMKPEHQAQVRCRPHATAKHEH---NEKHPAPLHIVRCEHKL-
CPB_p53 HRPP-NPFTIRSTPVYSAQFAQECVYRCINHEFSKES-DGDLKEHTRPHITRCANOYA
Trib_p53A NRPNLPLVTRATPVESQTHFQDQVHRCVGRHRPQDOS-NKGVAPHEFQHTIRCTNDNA
Trib_p53B KADPERRTLEV RVMEETEDRYQELVHRCVCHQQLTDPI-NHNVSEMAQAQHTIRCDNNA
Helio_p53 YQKA-PHMERSTVVSDETOAEKRVRCVQHFHESSTSGIQTEIAKNVLHSSREIGTOG
Dros_p53 SKMEIOPENIRVFLCTSD--VSAPVVRCONHLSVEPLI---ANNAKRESLREBNPNS
consensus pp lfratpvy hvgev Rcinhe d s d i hircenna

Human_p53 VEYLDNRNT--FRHSVVPYEP-----PEVGSQCTTIHYNVCNSSCNG-GMNRRTILTIT
Xeno_p53 AYYMEDVNS--GRHSVCVYEG-----POVGETECTVLYNVCNSSCNG-GMNRRTILTIT
Squid_p53 AKYHEDKYS--GRQSVLPHEM-----PQAGSEWVNLVYFMCGLGSCVG-GENRRRTILTIT
CPB_p53 AYLGDKSKN--ERLSVLPFGI-----PQTGETESVREIFEBVCKNSCPSPGMNRRAVEIT
Trib_p53A LYEGDKNTG--TRLNIVPLAH-----POVGEDVYKEFQFVCKNSCPL-GMNRRTIDVY
Trib_p53B QYEGDKNAG--KRLS-----
Helio_p53 YYCGKVDN--ADSWSVLVEF-----MRTSSSESCSHAVOFSCKNSCAT-GINRRALATIT
Dros_p53 YCGENAQGKGISERFSSVVVPLNMSRSVTRSGLTROMLAKEVYCONSCIG--RKETSLV
consensus vvygdk i svvvp e pq gse t ynfmc nscmg gmnrtpi li

